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(54) Process for planting of woody stem plants by hydroboring

⁽⁵⁷⁾ A process for planting of woody stem plants by hydroboring, wherein a planting hole is prepared by means of a hydroboring apparatus, slow- and/or quick-acting fertilizer composition containing up to 75% of wt. of N, P₂O₅ and K₂O macro nutritive elements and up to 10% wt. of Mg, Cu, Mn, Zn, Fe and B micro nutritive elements in desired ratio are admixed with the boring water and the reproducer is placed into the planting hole. The boring water may optionally contain fine-crushed organic and/or inorganic substance, soil-desinfectants and/or fungicides or different compounds controlling the plants' processes, e.g. compounds with hormonic activity or their precursors. For the plantation rooted or rootless reproducers can be used. According to the process of the invention different woody stem plants e.g. poplars, willows, vines, peaches etc. can successfully be planted.

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SPECIFICATION

Process for planting of woody stem plants

values. The data relate to leaf-dry substance.

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5 The present invention relates to a process for planting of woody stem plants by hydroboring, wherein the planting hole is prepared by a hydroboring apparatus and plant nutrients, different compounds and compositions controlling the plant's vital processes or plant protecting agents as well as substances for amelioration admixed with the boring water are applied to the soil.

Into the hole thus prepared rooted or rootless propagation materials /reproducers/ are placed. According 10 to the process of the invention different woody stem plants e.g. poplar, wilow, vine, peach and other types of fruits can successfully be planted by large-scale industrial methods into any type of soils except stony soils.

Background of the invention

It is well known that planting of forests and fruit-gardens is carried out by two methods. One of these 15 methods is the traditional process wherein a hole is dug of the size of 60×60×60 cm, the reproducer is placed into the hole, the soil dug out is replaced around the reproducer, it is watered and finally the soil is compacted. The other method is the mechanical deep drilling method, wherein the planting hole is prepared by means of a twist deep borer which lifts out the loosened soil from the hole and places it beside it. Into the hole thus obtained organic fertilizer and/or fertilizer are added, the reproducer is placed into it, the soil is 20 compacted by replacing same around the reproducer and the young sapling is watered.

It is a drawback of the traditional process that it is extraordinarily labour-consuming and consequently expensive and slow. The drawback of the mechanical deep driling method consisting of several work-phases is that the twist drill compacts the sides of the hole, thus subsequent to the placing of the reproducer into the hole the soil has to be broken up and has to be compacted around the sapling. An additional drawback is the intensive wear of the bit edge and consequently the frequent and expensive change of the bit. A further drawback is in case of both known processes the low ratio of plants taking root and the annual low yield of crops.

In order to eliminate the drawbacks of the known methods mentioned above we have investigated the possibilities of the development of a new technology and we have made a series of experiments on different 30 types of soils and under different weather conditions employing different types of reproducers. In case of predominantly bad, sandy soils assigned for forest plantation which soils are unsuited for field and horticultural husbandary due to the low water table and the insufficient nutrient supply, we have found that the nutritive element content of the leaves of 3-5 m tall poplar cuttings with crown buds - planted in a depth of 2-4 m - does not reach the optimal values regarding certain elements. The reason for this is that by 35 carrying out the planting up to the water table the water supply of the plant becomes more favourable, the plant grows more quickly but the soil does not contain sufficient nutrients to ensure the optimum nutrient level. The test data of a 2 year old poplar plantation are given in Table 1. The test data relate to plants planted by traditional technology as well as by the process of the invention and both are compared with the optimum

TABLE 1

	Nutritive	element	Optimum	Pi	lanting	
45		ntent	value	with traditional process	with hydroboring process	45
	Nitrogen	% by wt	2.50	2.50	2.30	
-	Phosphorus	% by wt	0.25	0.24	0.19	
	Potassium	% by wt	1.50	1.50	1.27	•
50	Calcium	% by wt	1.70	1.80	2.00	. 50
50	Magnesium	% by wt	0.40	0.37	0.39	٠.
	Iron	ppm	200	130	105	: *.
	Manganese	ppm	120	125	95	.**:
	Zinc	ppm	60	44	20	٠.
55	Copper	ppm	15	11	8	55
55	Boron	ppm	60	59	51	.:
	Molybdenum	ppm	0.5	0.8	1.0	٠.,

Different researchers described similar results but in the course of their investigations the intensive growth of the plants was not due to the optional amount of used water but the great amount of nitrogen-fertilizer /Vagoor, Lehrbuch der Pflanzenphysiologie, VEB Gustav Verlag Jena 1979. pp. 137-138; and Souchelli: Trace-elements in agriculture, Von Nostran Beinhald Co., New York 1969. pp. 201-209/.

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into account all parameters having importance from point of view of the dynamic unity of plant and its environment and which technology produces harmony between the plant protection and nutriation adjusted to the plant's vital processes during the whole vegetation period particularly during the growing period just after taking root. The planting process by hydroboring according to the invention is the result of our wide-spread experimental work and it offers a great help in the large scale industrial planting of forest and fruit garden.

Detailed description of the invention

According to the process of the invention for planting of woody stem plants a planting hole is prepared by hydroboring apparatus of a deepness of 2-4 m depending on soil quality and type of plant to be planted. Previously slow- or quick-acting fertilizer compositios containing the necessary nutrients are dispersed in the boring water. These compositions contain up to 75 % by weight of N, P₂O₅ and K₂O as macro-nutritive elements and up to 10 % by weight of Mg, Cu, Mn, Zn, Fe and B as micro-nutritive elements in the desired ratio

The boring water may optionally contain fine-crushed organic substances e.g. organic fertilizer and/or turf to increase the nutrient content and for amelioration, it may also contain fine-crushed inorganic substances e.g. zeolite, pearlite or other types of mineral clays. If desired soil- desinfectants, preferably phosphorus acid-, thiophosphorous acid- or dithiophosphorous acid-ester-derivatives, e.g. O-ethyl-S-phenyl-ethyl-phosphorodithioate /DYFONATE/, 2-chloro-3-/-diethylamino/-1-methyl-3-oxo-1-propanyl-dimethyl-

20 phosphate /DIMECRON/ O,O-diethyl-O-/2-isopropyl-6-methyl-4-pyrimidinyl/-phosphorothioate /DIAZINON/, S-/2,5-dichlorophenylthiomethyl/-O,O-diethyl-phosphorodithioate /PHENKAPTON/, etc. may also be mixed into the boring water.

As fungicides triphenyl-stannic acetate /BRESTAN/ and/or zinc- or manganese dithiocarbamate derivatives /MANEB, MANCOZEB, ZINEB/, etc. can preferably be mixed into the boring water.

For controlling the plant's vital processes, if desired different compounds having hormonic activity /e.g. gibberellinic acid or its derivatives, auxin or cytoquinine or cytoquinine-like substances/, or compounds being transformed into such compounds in the plant/e.g. precursors, methionin/ may also be added to the boring water.

The rooted or rootless reproducers are placed into the planting hole prepared by using boring water of 3-4 30 bar pressure containing all the necessary substances mentioned above.

The advantage of the process according to the invention compared with the known methods is that it can be carried out quickly and economically since the preparation of the planting hole, the addition of nutrients, water and other substances /plant protectives, soil-ameliorating materials, regulators etc./, the compacting of the soil around the plant are made in a single step by using mechanical power and the demand of physical work is reduced to one third. A further advantage of the process of the invention is that the water in the bored hole produces a sludge-bed which surrounds the sapling and fixes it without any specific compacting operation. The sluge-bed contains every material in desired quality and quantity necessary to the sufficient taking roots and growing of the plant and surrounds the underground part of the plant in a fairly large volume and in uniform distribution thus solving the constant and uniform nutrient-supply harmonizing with the vital processes in the long run. Despite of the relative high nutrient concentration considerable amount of fertilizer can be economized since there is no need for the so called "reserve fertilization" of the whole

plantation area and the effective nutrient supply can be solved with the one fifth part of the earlier amount. Further advantage of the process of the invention is that the local amelioration of soil of bad quality can simply be realized simultaneously with the planting. The most important advantage of the process is that the planting of forests and fruit-gardens can be carried out under such conditions under which it was impossible or complicated when using the known methods. As an advantage the fact can finally be mentioned that, the healthy, rapidly growing plant stock can earlier achieve the state, when it can be utilized, e.g. in case of poplar the felling rotation /in average 25 years/ is reduced at least to one half.

The invention is illustrated by the following, non-limiting examples.

Evamole 1

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Comparative test of poplar plantations planted by mechancial deep-boring and by hydroboring

On an area of 1 ha of weakly humic soil poplars are planted in 4 repetitions at a square-distance of 5×3 m from one another by mechanical deep-boring and by hydroboring using rootless reproducers. The

comparative test of the plantations was carried out 2 years after the planting. The average results are

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			T 1.1.	. ^
SHIM	marize	d in	labie	3 Z.

TABLE 2

5		Taking roots %	Stem-diameter cm	Height of trees Iml	Production of organic substances I%i	Marie La companya (mariental and mariental and mariental and mariental and mariental and mariental and mariental and Mariental and mariental a	5
į.	Mechanical	.:				<i>,</i> ·	
10	deep-boring	81	2.66	1.90	100		10
	Hydroboring	94	2.76	2.02	114		

15 Example 2
Comparative test of poplar plantations planted by hydroboring and hydroboring + addition of plant nutrients

On an area of 1 ha of weakly humic soil poplars are planted in 4 repetitions at a square-distance of 5×3 m from one another by hydroboring and hydroboring + addition of plant nutrients, using rootless reproducers.

20 At the time of the planting soil-examinations were carried out, the results thereof are summarized in Table 3.

The plant nutrients were added in two different doses /250 g/tree and 500 g/tree/. The different components of the nutrients as well as the water-solubility and the nutritive-element content thereof are summarized in Table 4. The examination of the plantations has been carried out for 4 years starting from the planting. The average test results in every year are summarized in Table 5. The nutritive element content of the leaves was determined two years after the planting, the results thereof are summarized in Table 6.

TABLE 3

gan e a no chino que conse		Tested parameters	Values	
30	рН	aviness	7.5 30	30
	CaC	CO ₃ % by wt mus % by wt	5.0 0.88	
35		₂ + NO ₃ ppm	1.6 101	35
	K₂C Mg) ppm	112 56	
40	Na Zn	ppm ppm	39 5.2	40
	Cu Mn	ppm	5.7 16.1 5.1	
To the control of the	50	4 ²² ppm		

TABLE 4

. 5	Components of the fertilizer		Solubility at 20°C % by wt	Nutritive elements	Nutritive element content in the fertilizer % by w	t	5
	Urea-formalde	ehide 1	$0^{-2} - 10^{-1}$	Nitrogen	20		
10	cond.	•		P ₂ O ₅	11		40
10	•			. 205		* 2	10
	Potassium chl	oride	good	K₂O	14		
15	Potassium ma phosphate	gnesium 1	0-2-10-1	· Mg	4		15
	Culpric ammo phosphate		0 ⁻³ -10 ⁻²	Cu	0.4		
20	Manganese ar phosphate		0-3-10-2	Mn	0.2	· .	20
	Zinc ammoniu phosphate		0 ⁻³ - 10 ⁻²	Zn .	0.1		
25	iron ammoniu phosphate		0 ⁻³ - 10 ⁻²	Fe	0.35		25
30	Boric acide		good	B	0.05		30
35	Time after the planting	Nutrient dos g/tree		C nmeter Heig	of organ	nic	35
40	1 year	0 /control/ 250 500	1.06 1.10 1.24	99. 95. 95.	9 105		40
	2 years	0 /control/ 250 500	2.72 2.88 2.97	202.1 213. 219.4	1 .118		
45	3 years	0 /control/ 250 500	5.35 5.75 5.99	351.(375.(379.() 100) 123		45
50	4 years	0 /control/ 250 500	9.26 10.57 10.89	543.0 592.0 595.0) 100) 142		50
	, •				•		

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TABLE 6

	Nutritive elements	Nutritive element c 0 g/tree	ontent in the dry leaves 250 g/tree	500 gitree	÷ Šv.	5
5	Nitrogen	2.79 % by wt	3.00 % by wt	2.79 % by wt		J
	Phosphorous	0.19 % by wt	0.19 % by wt	0.19 % by wt	``\	
10	Potassium	1.57 % by wt	1.64 % by wt	1.62 % by wt		10
	Са	2.21 % by wt	2.11 % by wt	2.10 % by wt		
	Mg	0.39 % by wt	0.40 % by wt	0.44 % by wt		15
15	Fe	94.7 ppm	96.7 ppm	107.5 ppm		15
	Mn	95.0 ppm	89.0 ppm	91.7 ppm		,
20	Zn	19.5 ppm	21.9 ppm	23.5 ppm		20
	Cu	7.8 ppm	9.8 ppm	9.0 ppm		: ::
	В	51.0 ppm	56.0 ppm	62.0 ppm		25
25				•		25

Example 3

Examination of insecticidal and fungicidal activity on poplar plantations planted by hydroboring According to Example 2 poplars are planted on humic soil. At the time of the planting soil test was carried 30 out and the degree of infection by insects and fungis was determined. The area was infected by Anoxia pilosa and Cytospora chrysosperma. The pesticide contains O-ethyl-S-phenylethyl-phosphorodithioate /DYFONATE/ as active ingredient /applied dose: 30 g active ingredient/ tree/, the fungicide contains triphenyl stannic acetate /BRESTAN/ as active ingredient/applied dose: 1.5 g active ingredient/tree/. A third experiment was carried out by mixing a fertilizer composition according to Example 2 into the boring water 35 together with the insecticide and fungicide.

The results of the soil tests carried out at the same time on the planting are given in Table 7, the test results

obtained one year after the planting are summarized in Table 8.

TA	BL	E	7

5			Te	sted ;	param	eters	Va	lues					5
			рΗ					7.5					
40			He	avine	ss		32	2			-		
10			Ca	CO ₃ %	6 by w	rt	(5.4					10
			Hu	mus'	% by v	vt		1.47					
15 -	,		NC) ₂ + N	1O³ bb	m	:	2.3					15
			P ₂ 0	D 5	ppm		110) .					
00	·		K ₂ (Ο,	ppm	,	150						
20	,		Μg	3	ppm		39)					_ 20
			Na		ppm		18	3	• •				
25			Zn		ppm	,	E	5.6					25
•	,		Cu		ppm	-	3	1.2					•
30	•		Mr	ì	ppm		8	.6					
30			so	2- 4	ppm	-,	7	.8				•	30
						TABLE 8				•			
35	Treatment												35
	i reatment		1	inte Inoxia	ection a pilo:	.by sa /%/	Cvt		fectio ra chi		erma		
		1	2	3	4	Average	. 1	2	3	4	Average	ě	
40	Dyfonate + Brestan	1	0.	0	0	0.25	0	0	0	0.	0		40
45	Dyfonate + Brestan + Fertilizer	. 0	1	0	0	0.25	0	0	0	0.	0		45
	Control	3	7	6	1	4.25	10	9	4	6	7.25		
hydrol	of fine-crushed inol												50

Poplars are planted on weakly humic soil according to Example 2. At the time of the planting soil test was carried out the results of which are summarized in Table 9. In order to examine the effect of manganese mud 55 it was added in an amount of 500 g/tree. In the course of another experiment the activity of the fertilizer composition according to Example 2 /in an amount of 125 g/tree / together with the manganese mud was

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examined. The experiments were evaluated one year after the planting. The results are summarized in Table 10.

TABLE 9

5	Tested parameters	Values	5.
	На	7.6	v.
	Heaviness	30	
10	CaCO₃ % by wt	4.2	10
	Humus % by wt	0.9	
15	NO ₂ + NO ₃ ppm	1.4	15
	P ₂ O ₅ ppm	78	
•	K₂O ppm	86	
20	Mg ppm	55 55	20
	Na ppm	36	
25	Zn ppm	5.8	25
	Cu ppm	1.2	
30	Mn ppm	10.5	
	SO ² - ppm	5.0	, 30

					TAE	TABLE 10		٠.			•
Treatment	-	Stem di. 2	Stem diameter Imml 2 3 4	'mm' 4	Average	-	Height (Height of trees lcml 2 3 4	lcml 4	Average	Production of organic substance 1%
Manganese mud	6.6	10.3	10.2	10.4	10.15	97	86	97	86	97.5	106.3
Manganese mud + fertilizer	10.3	10.8	10.9	10.6	10.65	66	6	88	66	98.25	114.4
Control	9.2	9.7	9.6	9.6	9.5	102	92	96	66	86	100
					TAE	TABLE 11			•		
Treatment	-	Stem di 2	Stem diameter Imml 2 3 4	Imml 4	Average	-	Height o	Height of trees lcml 2 3 4	lcmi 4	Average	Production of organic substance 1%
Organic fertilizer	9.6	9.6	9.5	9.5	9,55	100	66	101	100	100	103
Organic fertilier + fertilizer	10.8	10.3	10.6	10.6	10.6	102	86	66	100	99.75	111.4
Control	9.5	9.7	9.6	9.6	9.5	102	32	96	66	86	100

Effect of fine crushed organic substance addition lorganic fertilizer! on plantation of poplars planted by hydroboring

The experiment was carried out according to Example 4 but organic fertilizer in an amount of 3 liter/tree 5 was used instead of manganese mud, admixed with the boring water. The experiment was evaluated one year after the plantation, the results are summarized in Table 11.

Example 6

Effect of addition of compounds with hormonic activity on poplar plantations planted by hydroboring The experiment was carried out according to Example 4, but a compound with hormone active agent /gibberellin/ in an amount of 0.05 g/tree instead of manganese mud was used and mixed into the boring

10

The experiment was evaluated one year after the planting, the results thereof are summarized in Table 12.

Stem diameter Imml Average Height of trees 1	•	- :	. '				· :	TABLE 12	Е 12					
9.2 9.5 9.6 9.6 9.5 103 101 103 10.6 10.8 10.6 10.7 10.6 101 99 95 9.2 9.7 9.6 9.6 9.5 102 95 96 Taking roots Shoot-diameter Shoot-length Imml Imml 96 5.13 733 96 5.19 771	Treatment	٠	. •	Stem dii 2	meter II 3	1mn 4	Aver	age	+ +	feight o 2	f trees / 3	cm/	Average	Production of organic sub-
9.2 9.7 9.6 9.6 9.5 102 95 96 9.2 9.7 9.6 9.6 9.5 102 95 96 Taking roots Shoot-diameter Shoot-length Imml 96 5.13 733 94 771	Gibberellin		9.3	. 6	9.6	9.6	. 65 . 52		103	101	103	102	102.25	104.3
9.2 9.7 9.6 9.6 9.5 102 95 96 Taking roots Shoot-dlameter Shoot-length Imml 96 5.13 733 94 4.92 602	Gibberellin + fertilizer		10.6	10.8	10.6	10.7	10.6		101	66	66	100	99.75	113.6
Taking roots Shoot-diameter Shoot-length	Control	. -	9.5	9.7	9.6	9 6	9.5	V ₅ · .	102	92	96	66	86	100
Taking roots Shoot-diameter Shoot-length 1%1 1mml 96 5.13 733 95 5.19 771 94 4.93 603				\$ *			o Santana. Santana	TABL	П 5		· · .		. **	
96 5.13 733 95 5.19 771	Treatment		Taking %	roots /	Sho	ot-dlam Imml	eter	Sh	oot-leng Imml	tt.	Wei	ght of lea g/stock		Production of organic substance 1%
95 5.19 771	20 g/stock fertilizer		96			5.13			733			81.73	٠.	115.7
04	40 g/stock fertillizer		86	 		5.19			171		•	85.39		127.1
4.32	Control		96			4.92		. , .	. 683			66.28		100

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55 to 8.

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		·				
	Example 7				- Laddition of plant	
	Comparative test of vi	ne-plantations plant	ted by hydroboring ar	nd by hydroboring	g + addition of plant	
·	nutrients Vine is planted on humic sandy soil by mixing a fertilizer composition into the boring water in an amount The experiment was evaluated one year after the planting, the					5
5	Vine is planted on numic sandy solidy mixing a fortule of solid planting and the planting of 20 and 40 g/vine-stock, respectively. The experiment was evaluated one year after the planting, the experiment was evaluated one year after the planting, the experiment was evaluated one year after the planting.					J
	average values of 200-	-200 vine-stocks are	Summarized in Table			
				,		
	Example 8 Comparative test of peach plantations planted by hydroboring and by hydroboring + addition of plant					
40						10
10	Peach trees are planted on middle-hard adobe-soil 100 cm deep by mixing a fertilizer composition according to Table 4 into the boring water in an amount of 40 g/tree and 80 g/tree, respectively. The					
	atherina - Table 4 is	nta tha baring water	in an amount of 40 0/	fiee and on Ave ed	s, reapectively. The	
	experiment was evalu	ated one year after t	he planting, the resul	ts are summarize	d in Table 14.	
	•					15
15	TABLE 14					. 15
		- 11 ii	Stem diameter	Production of		
	Treatment	Taking roots %	/mm/	organic substa		
		1701	1111111	<i></i>	·	
	40 g/tree		•			20
20	fertilizer	83	35.7	116		
	, , ,					
	80 g/tree			400		, ,
	fertilizer	87	38.9	126	:	25
25		•	30.8	100		25
	Control	64	30,6	100		•
	* **				•	
	CLAIMS	•	:			
30						30
00	1. Process for planting of woody stem plants by hydroboring, which comprises placing into the planting					
	1. Process for planting of woody stell plants by flydrosomy, which is prepared by hydroboring apparatus, plant nutrients, optionally fine-crushed organic and/or inorganic hole prepared by hydroboring apparatus, plant nutrients, optionally fine-crushed organic and/or inorganic					
	and the same and disinfectant and/or fundicides and/or compounds or normalisations dearly or product and the same and the					
	admixed with the boring water and placing the reproducers into the planting hole. 2. Process as claimed in claim 1, which comprises using fertilizer compositions as plant nutrients					35
35	2. Process as claimed in claim 1, which comprises using terminal to the containing up to 75 % by wt of N, P_2O_5 and K_2O macro-nutritive elements and up to 10 % by wt of Mg, Cu,					
	I Bustine alamanta in Marian					
	Mn, Zn, Fe and 8 micro-nutritive elements in desired ratio. 3. Process as claimed in claims 1 to 2, which comprises using the plant nutritive elements in form of					
		ui – – fa wilinar aamaa	CITIONS		·	
40	4. Process as claimed in claim 1, which comprises using organic tertilizers and/or turn as intercrustice					40
	* F 491					S
	5. Process as claimed in claim 1, which comprises using zeolite, pearlite or other types of mineral clays as fine-crushed inorganic substances.					
	fine-crushed inorgan	ic substances.	h comprises using ph	osphoric acid-, th	niophosphoric acid-ester-	
	6. Process as claimed in claim 1, which comprises using phosphoric acid-, thiophosphoric acid-ester-derivatives as soil desinfectants.					45
45	7. Process as claimed in claim 1, which comprises using triphenyl stannic acetate and/or zinc- and/or					., 1
	Ital to a subsequent on functional of the control o					
	a a manufacture de la colon de valeiro de valeiro de valeiro comprises de la la compressión de la color de la colo					
						50
50	9 Process as claimed in claim 1, which comprises using arrition acids as compounds being a compound of the comprises using arrition acids as compounds being a compound of the					ĐU
	into compounds with hormone activity in the plant. 10. Process as claimed in any of claims 1 to 9, which comprises placing rooted or rootless reproducer					
						•
•	into the planting hole	z. claimed in claim 1 ar	nd substantially as he	reinbefore descri	bed in any one of Examples	1
E	to 8.		•			55